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## SEQUENCE LISTING

	(1)	GENERAL INFORMATION:			
5		(i)	APPLICANT:		
			Schmutz, Sheila Marie		
			RR # 2, Box 123		
			Saskatoon, SK, Canada		
			S7K 3J5		
10					
			Julie Janine Goodall		
			101B-815 Reid Road,		
			Saskatoon, SK, Canada		
			S7N 2W8		
15					
		(ii)	TITLE OF INVENTION:		
			Improving Production Characteristics of Cattle	e	
		(iii)	NUMBER OF SEQUENCES: 3		
20					
		(iv)	CORRESPONDENCE ADDRESS:		

Furman & Kallio

WO 2005/007881

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1400 - 2002 Victoria Avenue

Regina, SK, Canada

**S4P 0R7** 

5 (v) COMPUTER-READABLE FORM:

COMPUTER:

**Dell Server** 

OPERATING SYSTEM:

Windows XP Professional

10

SOFTWARE:

Microsoft Word - Office 2004 Version

(vi) CURRENT APPLICATION DATA:

15

**APPLICATION NUMBER:** 

FILING DATE:

20 CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

- 40 -

APPLICATION NUMBER: US 60/489,026

FILING DATE:

July 23, 2003

5

**CLASSIFICATION:** 

(viii) PATENT AGENT INFORMATION:

10

a) NAME:

Furman & Kallio

1400 – 2002 Victoria Avenue

15 Regina, SK, Canada

S4P 0R7

b) REFERENCE NUMBER: 1709-03-00

20

(2) INFORMATION FOR SEQ ID NO: 1

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(i) SEQUENCE CHARACTERISTICS:

(a) LENGTH: 217 base pairs

5

20

(b) TYPE: nucleotide

(c) STRANDEDNESS: double stranded

10 (d) TOPOLOGY: linear

(ii) MOLECULE TYPE: genomic DNA

15 (iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(vi) ORIGINAL SOURCE: Bos taurus

(viii) POSITION IN GENOME:

a) CHROMOSOME SEGMENT: BTA 29

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MAP POSITION: 0 cM from ILSTS081 b) **UNITS:** centiMorgans c) 5 (ix) FEATURE: SNP-2 a) NAME/KEY: 10 b) LOCATION: bp 150 c) **IDENTIFICATION METHOD:** DNA sequencing of PCR products 15 d) OTHER INFORMATION: creates an additional BsrI restriction site; affects birth weight, sex-corrected rib eye area size, fat content and marbling 20 (x) PUBLICATION INFORMATION:

AUTHORS: Goodall, J.J. and Schmutz, S.M.

a)

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		b)	TITLE: Linkage Mapping of IGF2 on Cattle Chromosome 29	
5		c)	JOURNAL: Animal Genetics	
		d)	VOLUME: 34	
		e)	ISSUE: 4	
10		f)	PAGES: 313 – 313	
		j)	PUBLICATION DATE: August 2003	
15		k)	RELEVANT RESIDUES IN SEQUENCE ID NO: 2: C or T residue at position 150	
	(xi)	SEQU	JENCE DESCRIPTION: SEQ ID NO: 1	
20				
	cctcagcctc	atcccc	tect ttgeeteeca gteaageetg etggggggte tgageaceae	61

agccagagea ecceegeett ggcagegaet getactattg geccagecag eggateatee 121

acctggcagt cgagagcctg gggcaccagy gacgtccagg tcctctttac ccaccgccca

181

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ggggagcttc agagacaaca cagcaaatag agcacag 217

(2) INFORMATION FOR SEQ ID NO: 2

5

(i) SEQUENCE CHARACTERISTICS:

(a) LENGTH: 24 nucleotides

10 (b) TYPE: nucleotide

(c) STRANDEDNESS: single stranded

(d) TOPOLOGY: linear

15

(ii) MOLECULE TYPE: DNA (primer)

(iii) HYPOTHETICAL: no

20

(iv) ANTI-SENSE: no

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2

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24

(2) INFORMATION FOR SEQ ID NO: 3

cctcagcctc atcccctcct ttgc

5

15

20

(i) SEQUENCE CHARACTERISTICS:

10 (a) LENGTH: 25 nucleotides

(b) TYPE: nucleotide

(c) STRANDEDNESS: single stranded

(d) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (primer)

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3

ctgtgctcta tttgctgtgt tgtct

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25